

UNITED STATES PATENT AND TRADEMARK OFFICE



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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/070,353		02/25/2002	Masakazu Sugimoto	52433/682	7090
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ONE BROADWAY NEW YORK, NY 10004				FLANDRO, RYAN M	
				ART UNIT	PAPER NUMBER
				3679	
			DATE MAILED: 02/06/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary Examiner Ryan M Flandro Art Unit Ryan M Flandro Ryan M		Application No.	Applicant(s)					
Ryan M Flandro 3679		10/070,353	SUGIMOTO ET AL.					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Letnearior of time may be vasible under the provision of 37 CFR 1.13(b). In or event, however, may a reply be timely filed after SIX (8) MONTHS from the nating acts of this communication and the statutory menture of the considered timely. If the period of time may be vasible under the provision of 37 CFR 1.13(b), in or event, however, may a reply be timely filed after SIX (8) MONTHS from the nating acts of this communication. If the period of the communication of the communication or reply is a statutory predict and the communication. False to reply visition the set of extended period for reply visit by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply recented by the Office ut then three manning after the maining date of this communication, even if timely filed, may reduce any search plants the major and the period of the communication, even if timely filed, may reduce any search plants them adjustment. Set 97 CFR 1.074(b). Status 1 Signature of the set of the set of the set of the communication, even if timely filed, may reduce any search plants them adjustment. Set 97 CFR 1.074(b). 1 Signature of the set of the set of the set of the communication, even if timely filed, may reduce any search plants them adjustment to the set of the search plants. 1 Signature of the set of the set of the set of the search plants and set of the search plants. 1 Signature of the set of the search plants and set of the search plants. 1 Signature of the search plants and set of the search plants. 1 Signature of the search plants and set of the search plants. 1 Signature of the search plants and set of the search plants. 1 Signature of the search plants and set of the search plants. 1 Signature of the search plants and set of the search plants. 1 Signature of the search plants and set of the search plants. 1 Signature of the search plants and set of the search	Office Action Summary	Examiner	Art Unit					
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal						

Art Unit: 3679

DETAILED ACTION

Drawings

1. Figure 22 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 2 is objected to because of the following informalities: (1) the word "a" should be inserted at line 5 between the words "of" and "T"; (2) the phrase "is/are" at line 6 should be changed to "are". Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, recitation of the limitation that each tabular member is bent in the shape of a U or V conflicts with the recitation in claim 2 (from which claim 5 depends) that each tabular member is in the shape of a T.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 6. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Bloom (US 5,481,835).
 - a. Claim 1. Bloom shows a joining structure **410** having one or more tabular members **480** protruding from the surface of a structural member, [comprising] bending one or both ends **450** of each tabular member **480** (see figure 2c; column 5 lines 5-15).
 - b. Claim 2. Bloom further shows each tabular member **480** is a reinforcing rib extending in the direction of the principal stress of the structural member and protruding in the shape of [a] T; and one or both ends **450** of each reinforcing rib **480** are bent in a direction deviating from the direction of said principal stress (figure 2c).
 - c. Claim 3. Bloom shows both ends **450** of each tabular member **480** bent in the shape of a gradual curve (figure 2c).
 - d. Claim 10. Bloom shows both ends **450** of each tabular member **480** bent at a right angle to the direction of the principal stress (figure 2c).
 - e. Claim 5. Bloom shows each tabular member **480** bent into the shape of a U (figure 2c).

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f. Claim 11. Bloom further shows the structural member having a coupling flange or base plate 440, 490, and said tabular members 450 disposed between the structural member and the coupling flange or base plate 440, 490 (figure 2c).

- g. Claim 12. Bloom further shows each tabular member **480** serving as a fixture for one or more members **460** to be joined (figure 2c).
- h. Claim 13. Bloom further shows a tabular member **480** serving as a fixture for a secondary member **460** (figure 2c).
- 7. Claims 1-8 are alternatively rejected under 35 U.S.C. 102(b) as being anticipated by Hagglund (US 3,811,785).
 - a. Claim 1. Hagglund shows a joining structure having one or more tabular members 2,
 3 protruding from the surface of a structural member 11, [comprising] bending one or
 both ends of each tabular member 2, 3 (see figure 7).
 - b. Claim 2. Hagglund further shows each tabular member 2, 3 is a reinforcing rib extending in the direction of the principal stress of the structural member 11 and protruding in the shape of [a] T; and one or both ends of each reinforcing rib 2, 3 are bent in a direction deviating from the direction of said principal stress (figure 7).
 - c. Claim 3. Hagglund shows both ends of each tabular member 2, 3 bent in the shape of a gradual curve (figure 7).
 - d. Claim 10. Hagglund shows both ends of each tabular member 2, 3 bent at a right angle to the direction of the principal stress (figure 7).

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e. Claim 5. Hagglund shows each tabular member **2**, **3** bent into the shape of a U (figure 7).

- f. Claim 11. Hagglund shows the structural member 11 having a coupling flange or base plate 21, and said tabular members 2, 3 disposed between the structural member 11 and the coupling flange or base plate 21 (figure 7).
- g. Claim 12. Hagglund also shows each tabular member 2, 3 serving as a fixture for one or more members 21 to be joined (figure 7).
- h. Claim 13. Hagglund shows a tabular member 2, 3 serving as a fixture for a secondary member 21 (figure 7).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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9. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gregg et al (US 5,979,130) (Gregg) in view of Cook (US 5,626,534). Specifically, Gregg shows and discloses anchor bolts 23 extending in the direction of the principal stress of a structural member 11, 1, said anchor bolts 23 being fixed to a surface of the structural member 11, 1, characterized by bending an end 32 of each anchor bolt 23 in a direction deviating from the direction of said principal stress (see figure 12; column 6 lines 10-53). Gregg shows the bolt 23 attached by threaded means to the structural member 11, 1 but lacks disclosure that said bolts 23 are welded to the structural member 11, 1. Cook, however, teaches that threaded joining and welds are considered art recognized equivalents for means of attachment (see column 5 lines 60-67). Inasmuch as the references disclose these elements as art recognized equivalents, it would have been obvious to one of ordinary skill in the exercise art to substitute one for the other. *In re Fout*, 675 F.2d 297, 301, 213 USPQ 532, 536 (CCPA 1982).

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to joining structures:
 - U.S. Patent 6,427,393 to Chen et al.
 - U.S. Patent 6,324,800 to Valentz et al.

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U.S. Patent 6,073,405 to Kasai et al.

U.S. Patent 6,032,425 to Gugliotti

U.S. Patent 5,752,781 to Haataja et al.

U.S. Patent 5,467,570 to Leek

U.S. Patent 5,004,366 to Simmons

U.S. Patent 4,825,621to Jensen

U.S. Patent 3,525,495 to Brosseau

U.S. Patent 3,436,102 to Shelly

U.S. Patent 2,217,055 to Jennens

U.S. Patent 2,146,333 to Deming

U.S. Patent 1,539,580 to Lally

U.S. Patent 943,747 to Hickman

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan M Flandro whose telephone number is (703) 305-6952. The examiner can normally be reached on 8:30am - 5:30pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on (703) 308-1159. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

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Ryan M. Flandro January 31, 2003

Lynne H. Browne
Supervisory Patent Examiner
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